

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :

Christian Kunert et al.

Group Art Unit:

Serial No.: To be assigned

Examiner:

Filed: Herewith

For: DEVICE AND PROCESS FOR INTRODUCING GASES INTO A HOT MEDIUM

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

**IN THE CLAIMS:**

3. (Amended) Device according to claim 1, whereby the coolant for cooling jacket (3) is gas or a gas mixture, oil or an oil mixture, silicone oil or a silicone oil mixture, water or an aqueous solution.
4. (Amended) Device according to claim 1, wherein the gas that is introduced is chlorine gas or a mixture of chlorine gas and other gases.
5. (Amended) Device according to claim 1, whereby the material of the surfaces of the device that are in contact with the gas that is to be introduced is platinum or a platinum alloy.
6. (Amended) Device according to claim 1, whereby the medium, in which the gas is introduced, is melted glass.

7. (Amended) Device according to claim 1, whereby the container is a glass-melting tank, a lower part thereof or a crucible.

10. (Amended) Process according to claim 8, whereby cooling jacket (3) is cooled with water or an aqueous solution.

11. (Amended) Process according to one or more of claim 8, whereby as a gas, chlorine gas or a mixture of chlorine gas and other gases is introduced.

12. (Amended) Process according to one or more of claim 8, whereby the gas is introduced into melted glass.

13. (Amended) Process according to one or more of claim 8, whereby the gas is introduced into a glass-melting tank, a lower part thereof or a crucible and is used in refining parts as well as conditioning parts.

14. (Amended) Process according to one or more of claim 8, whereby the process is performed continuously.

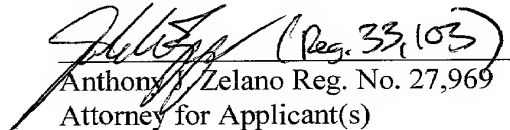
15. (Amended) Use of the device according to claim 1 for introducing chlorine gas or a mixture of chlorine gas and other gases in a melt from which glass is produced for laser applications.

**REMARKS**

The purpose of this Preliminary Amendment is to eliminate multiple dependent claims in order to avoid the additional fee. Applicants reserve the right to reintroduce claims to cancelled combined subject matter.

The Commissioner is hereby authorized to charge any fees associated with this response or credit any overpayment to Deposit Account No. 13-3402.

Respectfully submitted,

 (Reg. 33,103)  
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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

3. (Amended) Device according to claim 1 ~~or 2~~, whereby the coolant for cooling jacket (3) is gas or a gas mixture, oil or an oil mixture, silicone oil or a silicone oil mixture, water or an aqueous solution.

4. (Amended) Device according to ~~one or more of claims~~ claim 1 ~~to 3~~, wherein the gas that is introduced is chlorine gas or a mixture of chlorine gas and other gases.

5. (Amended) Device according to ~~one or more of claims~~ claim 1 ~~to 4~~, whereby the material of the surfaces of the device that are in contact with the gas that is to be introduced is platinum or a platinum alloy.

6. (Amended) Device according to ~~one or more of claims~~ claim 1 ~~to 5~~, whereby the medium, in which the gas is introduced, is melted glass.

7. (Amended) Device according to ~~one or more of claims~~ claim 1 ~~to 6~~, whereby the container is a glass-melting tank, a lower part thereof or a crucible.

10. (Amended) Process according to ~~claims~~ claim 8 ~~or 9~~, whereby cooling jacket (3) is cooled with water or an aqueous solution.

11. (Amended) Process according to ~~one or more of claims~~ claim 8 ~~to 10~~, whereby as a gas, chlorine gas or a mixture of chlorine gas and other gases is introduced.

12. (Amended) Process according to ~~one or more of claims~~ claim 8 ~~to 11~~, whereby the gas is introduced into melted glass.

13. (Amended) Process according to ~~one or more of claims~~ claim 8 ~~to 12~~, whereby the gas is introduced into a glass-melting tank, a lower part thereof or a crucible and is used in refining parts as well as conditioning parts.

14. (Amended) Process according to ~~one or more of claims~~ claim 8 ~~to 13~~, whereby the process is performed continuously.

15. (Amended) Use of the device according to ~~one or more of claims~~ claim 1 ~~to 7~~ for introducing chlorine gas or a mixture of chlorine gas and other gases in a melt from which glass is produced for laser applications.